

[0067] Further, the group controller of a near field network may not be fixed with one antenna system and/or CE device, but could change dynamically. For example, the near field network may be configured such that when a CE device receives an input from a user, such as receiving a remote control key press, that CE device could signal that it wants to take over as the group controller. Such a system would result in the CE device that the user is interacting with becoming the group controller and/or implementing some control over communications.

[0068] Still further, in some embodiments, when communication is received from a device outside of the near field network (and the CE devices of the near field network communicating through the antenna systems), such as from a cell phone, the outside device can act as the group controller. In other embodiments, the outside device may implement some control over the actions of a CE device that is currently acting as the group controller, and/or a user may implement some control over the CE device acting as the group controller through the outside device.

[0069] Furthermore, in some embodiments, as the configuration of the CE devices of the near field network is changed, the choice of which CE device and/or antenna system that operates as the group controller can change dynamically. When the group controller changes, the antenna system and/or CE device that is newly acting as the group controller may start by indicating the same configuration that the old group controller specified, and then can subsequently implement changes when determined by the newly acting group controller to be beneficial to the near field network.

[0070] In some implementations, the collection of CE devices of the near field network operate without one antenna system or CE device acting as a group controller. In such a situation, each antenna system and/or CE device negotiates the communication over each antenna system with the CE device on the other end of that communication connection. This communication may take into account communication from one or more other antenna systems on the CE device, which would allow a collection of CE devices and/or antenna systems to negotiate signals being passed through without a single device controlling that configuration.

[0071] In some embodiments, a first antenna system and/or a first CE device in which the first antenna system is positioned is established as a group controller of the near field wireless network and over each of the plurality of antenna systems. This establishment can be user defined, negotiated between the plurality of antenna systems, based on one or more of the criteria described above, or other such criteria. Further, in some implementations, the near field network may have previously been established and the first antenna system may be newly joined to the network. In such instances, the first antenna system may take over group controller functionality from another antenna system (or other CE device) when another antenna system was previously designated as a group controller. In other instances, a separate device and/or service may configure the network and/or operate as a group controller. The group controller utilizes the wireless coupling parameters in determining the wireless coupling configurations. Further, the group controller communicates the one or more configuration instructions to one or more antenna systems. In some implementations, one or more of the configuration instructions are retrans-

mitted (e.g., daisy chain transmitted) by one or more of the other antenna systems to subsequent antenna systems. Further, in some implementations, a single configuration instruction may be communicated that is used by multiple antenna systems. In other embodiments, multiple antenna configuration instructions are communicated. Typically, the group controller antenna system wirelessly communicates the one or more configuration instructions from the first antenna system to one or more of the plurality of antenna systems.

[0072] It is further noted that the near field network and/or one or more of the coupling configurations may be modified over time, such as when one or more CE devices are removed or added to the near field network. Similarly, a user may instruct modifications to the coupling between antenna systems. For example, the addition of an antenna system of another CE device may be detected after the near field wireless network is configured. Typically, additional wireless coupling parameters corresponding to the additional antenna system are received, and based on the additional coupling parameters, and in some instances some or all of the previously received coupling parameters, the modified wireless coupling configurations are determined for at least the additional antenna system and at least one of the antenna systems already incorporated into the near field network. The one or more modified wireless coupling configurations typically dictate which one or more of the plurality of antenna systems the additional antenna system is to communicate with and/or allow power transfer with, and in some instances dictates which one or more of the plurality of antenna systems and the additional antenna system each is to directly communicate with. The one or more of the modified configuration instructions can be communicated, directing one or more of the plurality of antenna systems and the additional antenna system to be configured in accordance with the determined modified wireless coupling configurations and causing a reconfiguration of the near field wireless network.

[0073] For example, in some embodiments, an additional antenna system of a CE device may be detected, with the additional antenna system comprising one or more communications antennas and not including a power transfer antenna. As such, the wireless coupling parameters corresponding with this additional antenna system can be received and typically will specify that the antenna system does not include a power transfer antenna. Based on the wireless coupling parameters, including those corresponding to the additional antenna system, the wireless coupling configurations are determined for the additional antenna systems and one or more other antenna systems of the network. Again, the wireless coupling configurations dictate which one or more of the plurality of antenna systems the additional antenna system and at least one of the other antenna systems that the additional antenna systems is to directly communicate with, and with which the additional antenna system cannot provide wireless power transfer.

[0074] As described above, in some embodiments, some or all of the wireless coupling configurations may be specified and/or modified by a user. In some implementations, the user accesses a user interface that allows the user to obtain information about the antenna systems and/or CE devices, their communication and/or coupling parameters, and/or other such information. The user is able to at least in part define and/or modify the coupling configurations through